

Robex

220LC-9S

Long Reach Excavator

Maker / Model			HYUNDAI HM 5.9
Type			Water cooled, 4cycle Diesel, 6-cylinders in line, direct injection, turbocharged charger and air cooled
Rated flywheel horse power	SAE	J1995 (gross)	150 HP at 1,950 rpm
		J1995 (gross)	143 HP at 1,950 rpm
	DIN	6271/1 (gross)	152 HP at 1,950 rpm
		6271/1 (net)	145 HP at 1,950 rpm
Max. torque			62.6kgf.m / 1,500 rpm
Bore X stroke			102mm X 120mm
Piston displacement			5,900cc

Long Reach Front Includes:

Boom, Arm, Linkage, Bucket, Cylinders (boom, arm, and bucket), Hydraulic lines, and Additional counterweight for stability.

Designed especially for river maintenance and settling pond rehabilitation in plants.

The extended range front attachments give all the advantages of a hydraulic excavator plus an exceptional long reach range.

Relief Valve Setting

Implement circuits	350 kgf/cm ²
Travel	350 kgf/cm ²
Power boost (boom, arm, bucket)	380 kgf/cm ²
Swing circuit	265 kgf/cm ²
Pilot circuit	40 kgf/cm ²
Service valve	Installed

Hydraulic cylinders

No. of cylinder	Boom: 2 - 120 X 1,290 mm
bore X stroke	Arm: 1 - 140 X 1,510 mm
	Bucket: 1 - 120 X 1,055 mm

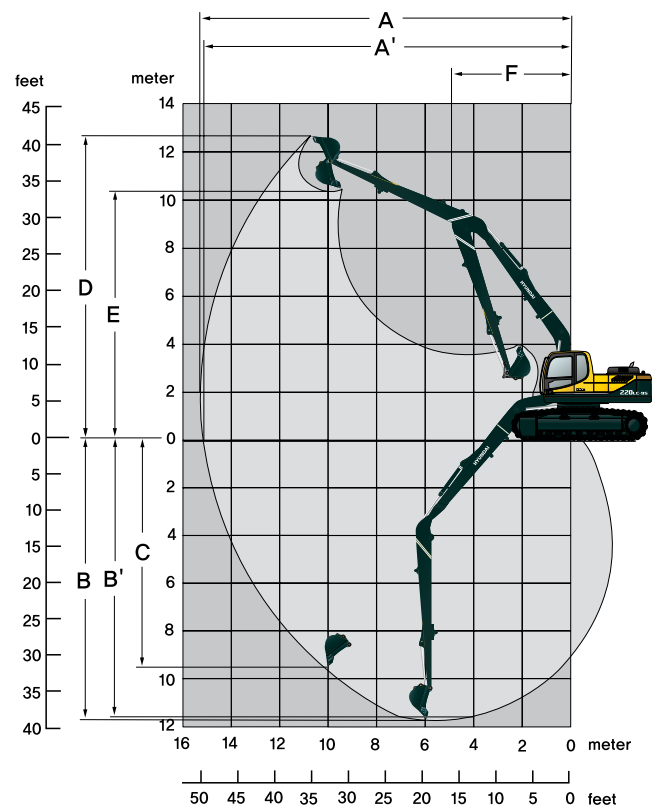
Digging force

Bucket digging force	(SAE) 7,400 kgf [72.6 kN] (16,310 lbf)
	(ISO) 8,500 kgf [83.4 kN] (18,740 lbf)
Arm crowd force	(SAE) 5,000 kgf [49.0 kN] (11,020 lbf)
	(ISO) 5,100 kgf [50.0 kN] (11,240 lbf)

MOVING YOU FURTHER

Working ranges

Boom length	8,200 mm (26' 11")
Arm length	6,300 mm (20' 8")
A Max. digging reach	15,220 mm (50' 0")
A' Max. digging reach on ground	15,120 mm (49' 7")
B Max. digging depth	11,760 mm (38' 7")
B' Max. digging depth (8' level)	11,650 mm (38' 3")
C Max. vertical wall digging depth	9,610 mm (31' 6")
D Max. digging height	12,550 mm (41' 2")
E Max. dumping height	10,280 mm (33' 9")
F Min. swing radius	4,870 mm (16' 0")



Operating weight (approximate)

Operating weight, including 8,200mm (26' 11") Boom, 6,300mm (20' 8") Arm, SAE heaped 0.52m³ (0.68yd³) backhoe bucket, and 800 mm (32") triple grouser shoe, additional counterweight lubricant, coolant, and full fuel tank, Hyd. tank and the standard equipment.

Upperstructure weight	9,400 kg (20,720 lb)
Counterweight	5,300 kg (11,680 lb)
Attachment	4,600 kg (10,140 lb)
Operating weight	24,360 kg (53,700 lb)
Drawbar pull	21,100 kgf (46,500 lb)
Ground pressure	0.42 kgf/cm ² (5.97 psi)

Shipping dimensions

A Tumbler distance	3,650 mm (12' 0")
B Overall length of crawler	4,440 mm (14' 7")
C Ground clearance of counterweight	1,060 mm (3' 6")
D Tail swing radius	2,830 mm (9' 3")
D' Rear-end length	2,770 mm (9' 1")
I Overall length	12,030 mm (39' 6")
J Overall height of boom	3,280 mm (10' 9")

Base machine

E Overall width of upperstructure	2,740 mm (9' 0")
F Overall height of cab	2,920 mm (9' 7")
G Min. ground clearance	480 mm (1' 7")
H Track gauge	2,390 mm (7' 10")
K Track shoe width	800 mm (32")
L Overall width	3,190 mm (10' 6")
N Overall length	4,990 mm (16' 4")
Weight	18,380 kg (40,520 lb)

Long reach boom

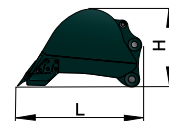
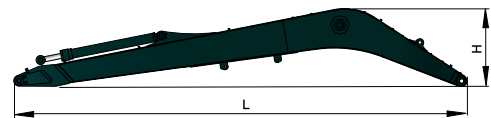
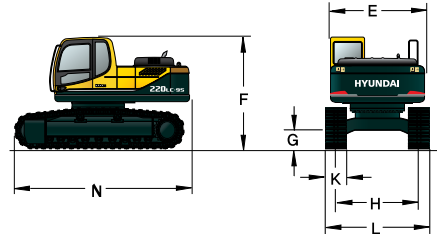
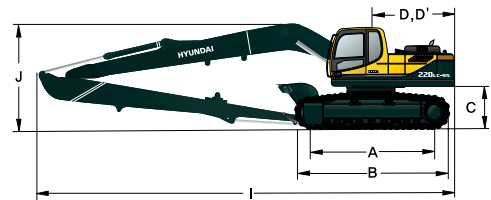
L Overall length	8,395 mm (27' 7")
H Overall height	1,515 mm (5' 0")
W Overall width	800 mm (2' 7")
Weight	2,470 kg (5,450 lb)

Long reach arm

L Overall length	7,280 mm (23' 11")
H Overall height	835 mm (2' 9")
W Overall width	480 mm (1' 7")
Weight	1,340 kg (2,950 lb)

Bucket











L Overall length	1,600 mm (5' 3")
H Overall height	980 mm (3' 3")
W Overall width	820 mm (2' 8")
Weight	465 kg (1,030 lb)



Rating over-front Rating over-side or 360 degree

R220LC-9S LONG REACH LIFTING CAPACITY

Boom: 8.2 m (26' 11") / Arm: 6.3 m (20' 8") / Bucket: 0.52 m³ (0.68 yd³) SAE heaped / Shoe: 800 mm (32") triple grouser

Load point height m (ft)		Load radius								At max. reach		
		3.0 m (10 ft)		6.0 m (20 ft)		9.0m (30ft)		12.0m (40ft)		Capacity		Reach
												m (ft)
9.0 m	kg							*830	*830	*1,330	*1,330	13.11
(30 ft)	lb							*1,830	*1,830	*2,930	*2,930	(43.0)
6.0 m	kg							*1,430	*1,430	*1,410	1,160	14.37
(20 ft)	lb							*3,150	*3,150	*3,110	2,560	(47.1)
3.0 m	kg					*1,990	*1,990	*1,670	1,630	*1,520	980	14.89
(10 ft)	lb					*4,390	*4,390	*3,680	3,590	*3,350	2,160	(48.9)
Ground	kg	*4,560	*4,560	*4,330	*4,330	*2,650	2,430	*1,980	1,440	*1,670	930	14.75
Line	lb	*10,050	*10,050	*9,550	*9,550	*5,840	5,360	*4,370	3,170	*3,680	2,050	(48.4)
-3.0 m	kg	*5,710	*5,710	*5,250	3,920	*3,150	2,140	*2,220	1,310	*1,860	1,020	13.92
(-10 ft)	lb	*12,590	*12,590	*11,570	8,640	*6,940	4,720	*4,890	2,890	*4,100	2,250	(45.7)
-6.0 m	kg	*7,790	*7,790	*5,370	3,840	*3,280	2,060			*2,090	1,330	12.25
(-20 ft)	lb	*17,170	*17,170	*11,840	8,470	*7,230	4,540			*4,610	2,930	(40.2)
-9.0 m	kg	*8,780	*8,780	*4,510	4,110	*2,620	2,260					
(-30 ft)	lb	*19,360	*19,360	*9,940	9,060	*5,780	4,980					

1. Lifting capacity are based on SAE J1097 and ISO 10567.

2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook located on the back of the bucket.

4. (*) indicates load limited by hydraulic capacity.